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Sequence Listing was accepted.

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Reviewer: markspencer

Timestamp: Fri Jul 06 15:06:35 EDT 2007

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Application No: 10538823 Version No: 1.0

**Input Set:**

**Output Set:**

**Started:** 2007-07-03 13:50:02.009  
**Finished:** 2007-07-03 13:50:02.306  
**Elapsed:** 0 hr(s) 0 min(s) 0 sec(s) 297 ms  
**Total Warnings:** 0  
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**No. of SeqIDs Defined:** 8  
**Actual SeqID Count:** 8

SEQUENCE LISTING

<110> Huber, L. Julie  
Solomon, Jonathan M.

<120> CYTOCHROME C ACETYLATION

<130> 13407-026US1

<140> 10538823  
<141> 2007-07-03

<150> US 10/538,823  
<151> 2005-06-13

<150> PCT/US03/39794  
<151> 2003-12-15

<150> US 60/433,096  
<151> 2002-12-13

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35 40 45  
Gly Glu Pro Gly Gly Ala Ala Pro Glu Arg Glu Val Pro Ala Ala Ala  
50 55 60  
Arg Gly Cys Pro Gly Ala Ala Ala Ala Leu Trp Arg Glu Ala Glu  
65 70 75 80  
Ala Glu Ala Ala Ala Ala Gly Gly Glu Gln Glu Ala Gln Ala Thr Ala  
85 90 95  
Ala Ala Gly Glu Gly Asp Asn Gly Pro Gly Leu Gln Gly Pro Ser Arg  
100 105 110  
Glu Pro Pro Leu Ala Asp Asn Leu Tyr Asp Glu Asp Asp Asp Glu  
115 120 125  
Gly Glu Glu Glu Glu Ala Ala Ala Ala Ile Gly Tyr Arg Asp  
130 135 140  
Asn Leu Leu Phe Gly Asp Glu Ile Ile Thr Asn Gly Phe His Ser Cys  
145 150 155 160  
Glu Ser Asp Glu Glu Asp Arg Ala Ser His Ala Ser Ser Ser Asp Trp  
165 170 175  
Thr Pro Arg Pro Arg Ile Gly Pro Tyr Thr Phe Val Gln Gln His Leu  
180 185 190

Met Ile Gly Thr Asp Pro Arg Thr Ile Leu Lys Asp Leu Leu Pro Glu  
195 200 205  
Thr Ile Pro Pro Pro Glu Leu Asp Asp Met Thr Leu Trp Gln Ile Val  
210 215 220  
Ile Asn Ile Leu Ser Glu Pro Pro Lys Arg Lys Lys Arg Lys Asp Ile  
225 230 235 240  
Asn Thr Ile Glu Asp Ala Val Lys Leu Leu Gln Glu Cys Lys Lys Ile  
245 250 255  
Ile Val Leu Thr Gly Ala Gly Val Ser Val Ser Cys Gly Ile Pro Asp  
260 265 270  
Phe Arg Ser Arg Asp Gly Ile Tyr Ala Arg Leu Ala Val Asp Phe Pro  
275 280 285  
Asp Leu Pro Asp Pro Gln Ala Met Phe Asp Ile Glu Tyr Phe Arg Lys  
290 295 300  
Asp Pro Arg Pro Phe Phe Lys Phe Ala Lys Glu Ile Tyr Pro Gly Gln  
305 310 315 320  
Phe Gln Pro Ser Leu Cys His Lys Phe Ile Ala Leu Ser Asp Lys Glu  
325 330 335  
Gly Lys Leu Leu Arg Asn Tyr Thr Gln Asn Ile Asp Thr Leu Glu Gln  
340 345 350  
Val Ala Gly Ile Gln Arg Ile Ile Gln Cys His Gly Ser Phe Ala Thr  
355 360 365  
Ala Ser Cys Leu Ile Cys Lys Tyr Lys Val Asp Cys Glu Ala Val Arg  
370 375 380  
Gly Asp Ile Phe Asn Gln Val Val Pro Arg Cys Pro Arg Cys Pro Ala  
385 390 395 400  
Asp Glu Pro Leu Ala Ile Met Lys Pro Glu Ile Val Phe Phe Gly Glu  
405 410 415  
Asn Leu Pro Glu Gln Phe His Arg Ala Met Lys Tyr Asp Lys Asp Glu  
420 425 430  
Val Asp Leu Leu Ile Val Ile Gly Ser Ser Leu Lys Val Arg Pro Val  
435 440 445  
Ala Leu Ile Pro Ser Ser Ile Pro His Glu Val Pro Gln Ile Leu Ile  
450 455 460  
Asn Arg Glu Pro Leu Pro His Leu His Phe Asp Val Glu Leu Leu Gly  
465 470 475 480  
Asp Cys Asp Val Ile Ile Asn Glu Leu Cys His Arg Leu Gly Gly Glu  
485 490 495  
Tyr Ala Lys Leu Cys Cys Asn Pro Val Lys Leu Ser Glu Ile Thr Glu  
500 505 510  
Lys Pro Pro Arg Thr Gln Lys Glu Leu Ala Tyr Leu Ser Glu Leu Pro  
515 520 525  
Pro Thr Pro Leu His Val Ser Glu Asp Ser Ser Ser Pro Glu Arg Thr  
530 535 540  
Ser Pro Pro Asp Ser Ser Val Ile Val Thr Leu Leu Asp Gln Ala Ala  
545 550 555 560  
Lys Ser Asn Asp Asp Leu Asp Val Ser Glu Ser Lys Gly Cys Met Glu  
565 570 575  
Glu Lys Pro Gln Glu Val Gln Thr Ser Arg Asn Val Glu Ser Ile Ala  
580 585 590  
Glu Gln Met Glu Asn Pro Asp Leu Lys Asn Val Gly Ser Ser Thr Gly  
595 600 605  
Glu Lys Asn Glu Arg Thr Ser Val Ala Gly Thr Val Arg Lys Cys Trp  
610 615 620  
Pro Asn Arg Val Ala Lys Glu Gln Ile Ser Arg Arg Leu Asp Gly Asn  
625 630 635 640  
Gln Tyr Leu Phe Leu Pro Pro Asn Arg Tyr Ile Phe His Gly Ala Glu

645	650	655
Val Tyr Ser Asp Ser Glu Asp Asp Val Leu Ser Ser Ser Cys Gly		
660	665	670
Ser Asn Ser Asp Ser Gly Thr Cys Gln Ser Pro Ser Leu Glu Glu Pro		
675	680	685
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690	695	700
Glu Pro Asp Val Pro Glu Arg Ala Gly Gly Ala Gly Phe Gly Thr Asp		
705	710	715
Gly Asp Asp Gln Glu Ala Ile Asn Glu Ala Ile Ser Val Lys Gln Glu		
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Val Thr Asp Met Asn Tyr Pro Ser Asn Lys Ser		
740	745	

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<212> PRT  
<213> Homo sapiens

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Gly Gly Glu Ala Asp Met Asp Phe Leu Arg Asn Leu Phe Ser Gln Thr		
35	40	45
Leu Ser Leu Gly Ser Gln Lys Glu Arg Leu Leu Asp Glu Leu Thr Leu		
50	55	60
Glu Gly Val Ala Arg Tyr Met Gln Ser Glu Arg Cys Arg Arg Val Ile		
65	70	75
Cys Leu Val Gly Ala Gly Ile Ser Thr Ser Ala Gly Ile Pro Asp Phe		
85	90	95
Arg Ser Pro Ser Thr Gly Leu Tyr Asp Asn Leu Glu Lys Tyr His Leu		
100	105	110
Pro Tyr Pro Glu Ala Ile Phe Glu Ile Ser Tyr Phe Lys Lys His Pro		
115	120	125
Glu Pro Phe Phe Ala Leu Ala Lys Glu Leu Tyr Pro Gly Gln Phe Lys		
130	135	140
Pro Thr Ile Cys His Tyr Phe Met Arg Leu Leu Lys Asp Lys Gly Leu		
145	150	155
Leu Leu Arg Cys Tyr Thr Gln Asn Ile Asp Thr Leu Glu Arg Ile Ala		
165	170	175
Gly Leu Glu Gln Glu Asp Leu Val Glu Ala His Gly Thr Phe Tyr Thr		
180	185	190
Ser His Cys Val Ser Ala Ser Cys Arg His Glu Tyr Pro Leu Ser Trp		
195	200	205
Met Lys Glu Lys Ile Phe Ser Glu Val Thr Pro Lys Cys Glu Asp Cys		
210	215	220
Gln Ser Leu Val Lys Pro Asp Ile Val Phe Phe Gly Glu Ser Leu Pro		
225	230	235
Ala Arg Phe Phe Ser Cys Met Gln Ser Asp Phe Leu Lys Val Asp Leu		
245	250	255
Leu Leu Val Met Gly Thr Ser Leu Gln Val Gln Pro Phe Ala Ser Leu		
260	265	270
Ile Ser Lys Ala Pro Leu Ser Thr Pro Arg Leu Leu Ile Asn Lys Glu		
275	280	285
Lys Ala Gly Gln Ser Asp Pro Phe Leu Gly Met Ile Met Gly Leu Gly		

290 295 300  
Gly Gly Met Asp Phe Asp Ser Lys Lys Ala Tyr Arg Asp Val Ala Trp  
305 310 315 320  
Leu Gly Glu Cys Asp Gln Gly Cys Leu Ala Leu Ala Glu Leu Leu Gly  
325 330 335  
Trp Lys Lys Glu Leu Glu Asp Leu Val Arg Arg Glu His Ala Ser Ile  
340 345 350  
Asp Ala Gln Ser Gly Ala Gly Val Pro Asn Pro Ser Thr Ser Ala Ser  
355 360 365  
Pro Lys Lys Ser Pro Pro Pro Ala Lys Asp Glu Ala Arg Thr Thr Glu  
370 375 380  
Arg Glu Lys Pro Gln  
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<210> 3  
<211> 399  
<212> PRT  
<213> Homo sapiens

<400> 3  
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35 40 45  
Gly Leu Arg Gly Ser His Gly Ala Arg Gly Glu Pro Leu Asp Pro Ala  
50 55 60  
Arg Pro Leu Gln Arg Pro Pro Arg Pro Glu Val Pro Arg Ala Phe Arg  
65 70 75 80  
Arg Gln Pro Arg Ala Ala Ala Pro Ser Phe Phe Ser Ser Ile Lys  
85 90 95  
Gly Gly Arg Arg Ser Ile Ser Phe Ser Val Gly Ala Ser Ser Val Val  
100 105 110  
Gly Ser Gly Gly Ser Ser Asp Lys Gly Lys Leu Ser Leu Gln Asp Val  
115 120 125  
Ala Glu Leu Ile Arg Ala Arg Ala Cys Gln Arg Val Val Val Met Val  
130 135 140  
Gly Ala Gly Ile Ser Thr Pro Ser Gly Ile Pro Asp Phe Arg Ser Pro  
145 150 155 160  
Gly Ser Gly Leu Tyr Ser Asn Leu Gln Gln Tyr Asp Leu Pro Tyr Pro  
165 170 175  
Glu Ala Ile Phe Glu Leu Pro Phe Phe His Asn Pro Lys Pro Phe  
180 185 190  
Phe Thr Leu Ala Lys Glu Leu Tyr Pro Gly Asn Tyr Lys Pro Asn Val  
195 200 205  
Thr His Tyr Phe Leu Arg Leu Leu His Asp Lys Gly Leu Leu Leu Arg  
210 215 220  
Leu Tyr Thr Gln Asn Ile Asp Gly Leu Glu Arg Val Ser Gly Ile Pro  
225 230 235 240  
Ala Ser Lys Leu Val Glu Ala His Gly Thr Phe Ala Ser Ala Thr Cys  
245 250 255  
Thr Val Cys Gln Arg Pro Phe Pro Gly Glu Asp Ile Arg Ala Asp Val  
260 265 270  
Met Ala Asp Arg Val Pro Arg Cys Pro Val Cys Thr Gly Val Val Lys  
275 280 285  
Pro Asp Ile Val Phe Phe Gly Glu Pro Leu Pro Gln Arg Phe Leu Leu

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His Val Val Asp Phe Pro Met Ala Asp Leu Leu Leu Ile Leu Gly Thr		
305	310	315
Ser Leu Glu Val Glu Pro Phe Ala Ser Leu Thr Glu Ala Val Arg Ser		
325	330	335
Ser Val Pro Arg Leu Leu Ile Asn Arg Asp Leu Val Gly Pro Leu Ala		
340	345	350
Trp His Pro Arg Ser Arg Asp Val Ala Gln Leu Gly Asp Val Val His		
355	360	365
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<212> PRT  
<213> Homo sapiens

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		15
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20	25	30
Val Pro Ala Ser Pro Pro Leu Asp Pro Glu Lys Val Lys Glu Leu Gln		
35	40	45
Arg Phe Ile Thr Leu Ser Lys Arg Leu Leu Val Met Thr Gly Ala Gly		
50	55	60
Ile Ser Thr Glu Ser Gly Ile Pro Asp Tyr Arg Ser Glu Lys Val Gly		
65	70	75
		80
Leu Tyr Ala Arg Thr Asp Arg Arg Pro Ile Gln His Gly Asp Phe Val		
85	90	95
Arg Ser Ala Pro Ile Arg Gln Arg Tyr Trp Ala Arg Asn Phe Val Gly		
100	105	110
Trp Pro Gln Phe Ser Ser His Gln Pro Asn Pro Ala His Trp Ala Leu		
115	120	125
Ser Thr Trp Glu Lys Leu Gly Lys Leu Tyr Trp Leu Val Thr Gln Asn		
130	135	140
Val Asp Ala Leu His Thr Lys Ala Gly Ser Arg Arg Leu Thr Glu Leu		
145	150	155
		160
His Gly Cys Met Asp Arg Val Leu Cys Leu Asp Cys Gly Glu Gln Thr		
165	170	175
Pro Arg Gly Val Leu Gln Glu Arg Phe Gln Val Leu Asn Pro Thr Trp		
180	185	190
Ser Ala Glu Ala His Gly Leu Ala Pro Asp Gly Asp Val Phe Leu Ser		
195	200	205
Glu Glu Gln Val Arg Ser Phe Gln Val Pro Thr Cys Val Gln Cys Gly		
210	215	220
Gly His Leu Lys Pro Asp Val Val Phe Phe Gly Asp Thr Val Asn Pro		
225	230	235
		240
Asp Lys Val Asp Phe Val His Lys Arg Val Lys Glu Ala Asp Ser Leu		
245	250	255
Leu Val Val Gly Ser Ser Leu Gln Val Tyr Ser Gly Tyr Arg Phe Ile		
260	265	270
Leu Thr Ala Trp Glu Lys Lys Leu Pro Ile Ala Ile Leu Asn Ile Gly		
275	280	285
Pro Thr Arg Ser Asp Asp Leu Ala Cys Leu Lys Leu Asn Ser Arg Cys		

290 295 300  
Gly Glu Leu Leu Pro Leu Ile Asp Pro Cys  
305 310

<210> 5  
<211> 310  
<212> PRT  
<213> Homo sapiens

<400> 5  
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20 25 30  
Met Ala Arg Pro Ser Ser Met Ala Asp Phe Arg Lys Phe Phe Ala  
35 40 45  
Lys Ala Lys His Ile Val Ile Ile Ser Gly Ala Gly Val Ser Ala Glu  
50 55 60  
Ser Gly Val Pro Thr Phe Arg Gly Ala Gly Gly Tyr Trp Arg Lys Trp  
65 70 75 80  
Gln Ala Gln Asp Leu Ala Thr Pro Leu Ala Phe Ala His Asn Pro Ser  
85 90 95  
Arg Val Trp Glu Phe Tyr His Tyr Arg Arg Glu Val Met Gly Ser Lys  
100 105 110  
Glu Pro Asn Ala Gly His Arg Ala Ile Ala Glu Cys Glu Thr Arg Leu  
115 120 125  
Gly Lys Gln Gly Arg Arg Val Val Ile Thr Gln Asn Ile Asp Glu  
130 135 140  
Leu His Arg Lys Ala Gly Thr Lys Asn Leu Leu Glu Ile His Gly Ser  
145 150 155 160  
Leu Phe Lys Thr Arg Cys Thr Ser Cys Gly Val Val Ala Glu Asn Tyr  
165 170 175  
Lys Ser Pro Ile Cys Pro Ala Leu Ser Gly Lys Gly Ala Pro Glu Pro  
180 185 190  
Gly Thr Gln Asp Ala Ser Ile Pro Val Glu Lys Leu Pro Arg Cys Glu  
195 200 205  
Glu Ala Gly Cys Gly Gly Leu Leu Arg Pro His Val Val Trp Phe Gly  
210 215 220  
Glu Asn Leu Asp Pro Ala Ile Leu Glu Glu Val Asp Arg Glu Leu Ala  
225 230 235 240  
His Cys Asp Leu Cys Leu Val Val Gly Thr Ser Ser Val Val Tyr Pro  
245 250 255  
Ala Ala Met Phe Ala Pro Gln Val Ala Ala Arg Gly Val Pro Val Ala  
260 265 270  
Glu Phe Asn Thr Glu Thr Thr Pro Ala Thr Asn Arg Phe Arg Phe His  
275 280 285  
Phe Gln Gly Pro Cys Gly Thr Thr Leu Pro Glu Ala Leu Ala Cys His  
290 295 300  
Glu Asn Glu Thr Val Ser  
305 310

<210> 6  
<211> 355  
<212> PRT  
<213> Homo sapiens

<400> 6

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Lys Cys Gly Leu Pro Glu Ile Phe Asp Pro Pro Glu Glu Leu Glu Arg  
20 25 30  
Lys Val Trp Glu Leu Ala Arg Leu Val Trp Gln Ser Ser Ser Val Val  
35 40 45  
Phe His Thr Gly Ala Gly Ile Ser Thr Ala Ser Gly Ile Pro Asp Phe  
50 55 60  
Arg Gly Pro His Gly Val Trp Thr Met Glu Glu Arg Gly Leu Ala Pro  
65 70 75 80  
Lys Phe Asp Thr Thr Phe Glu Ser Ala Arg Pro T